

FIG. 1

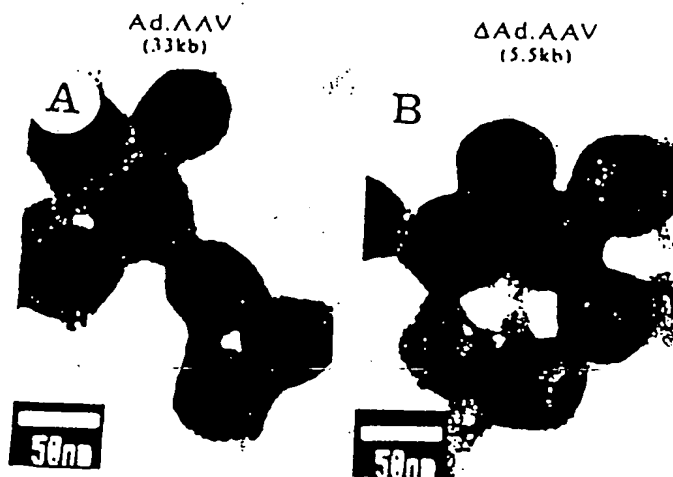


FIG. 2

0980564.1001

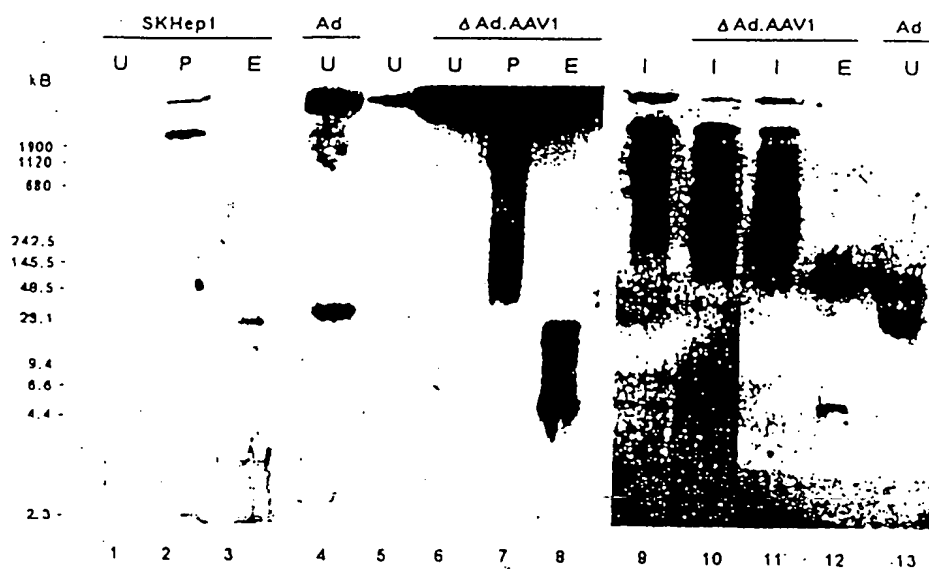


FIG. 3

0980564-13001

K562

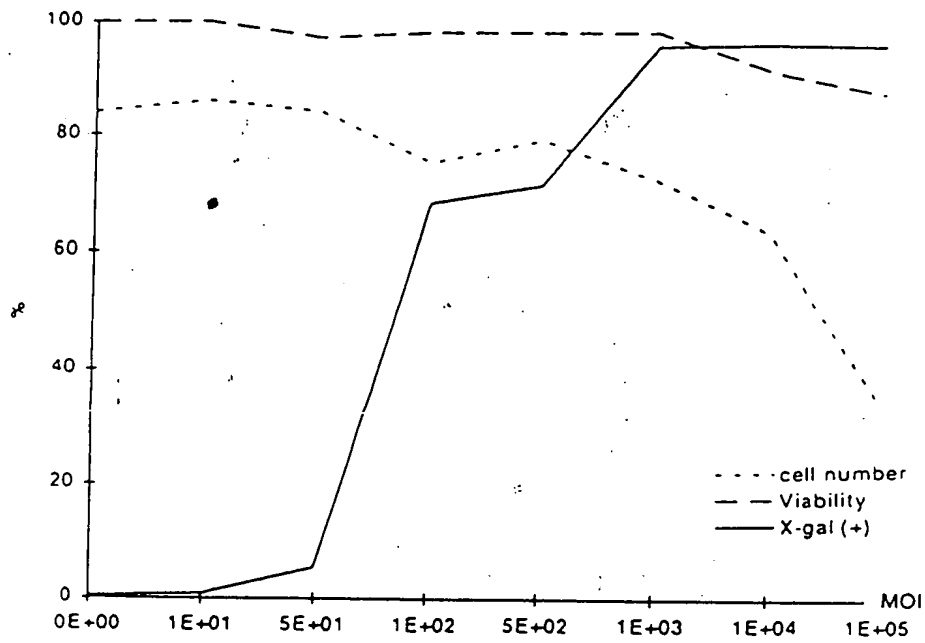


FIG. 4A

CD34+

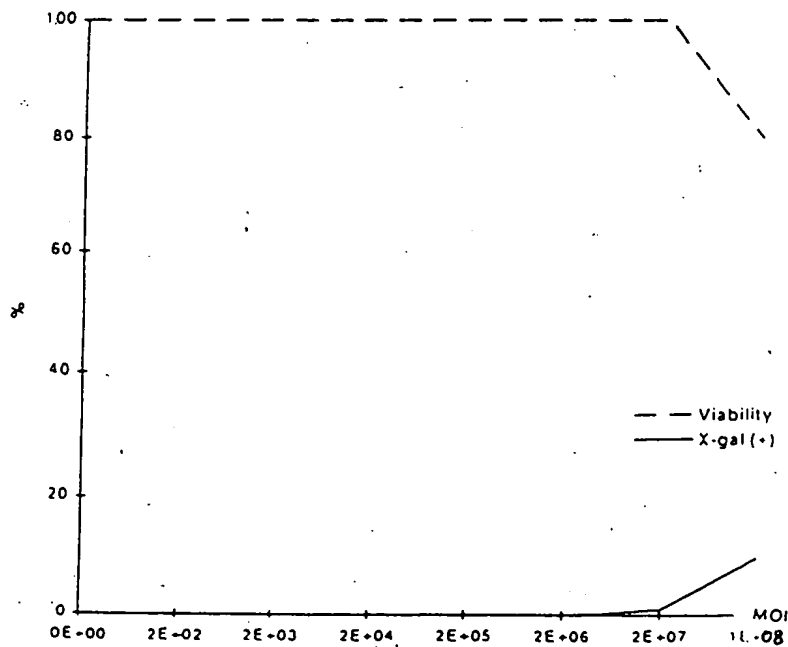


FIG. 4B

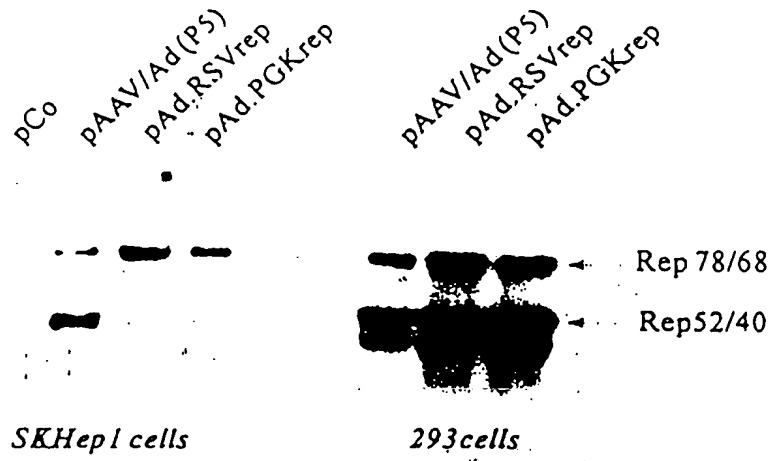
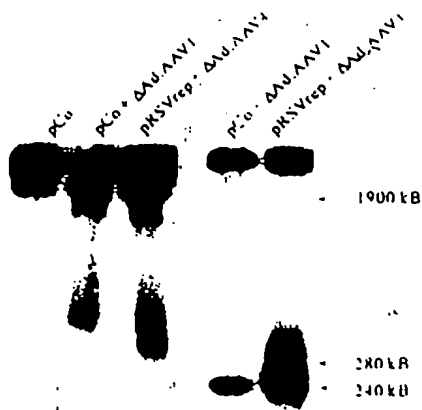


FIG. 5



• SLAP probe    • AAVS1 probe

FIG. 6

T00EFT"49508650

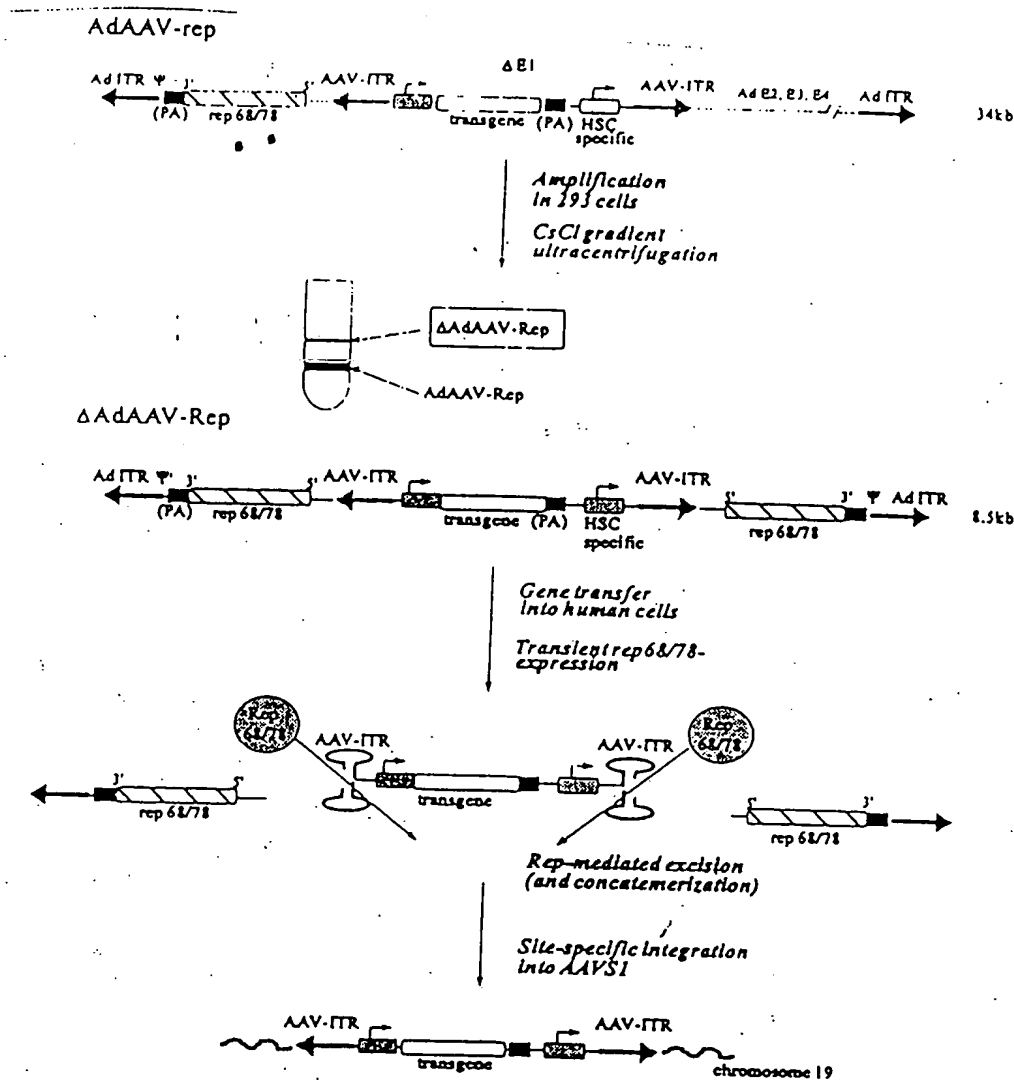
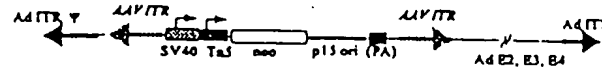


FIG. 7

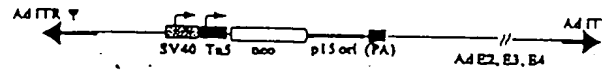
rAAV-SNori  
3.5kb (ss)



Ad.AAV-SNori ITR  
35 kB (ds)



Ad.SNori  
35 kB (ds)



ΔAd.AAVSNori  
4.8 kB (ds)

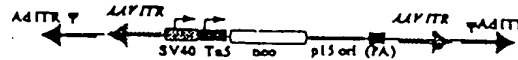


FIG. 8A

Integrated ΔAd.AAV-SNori

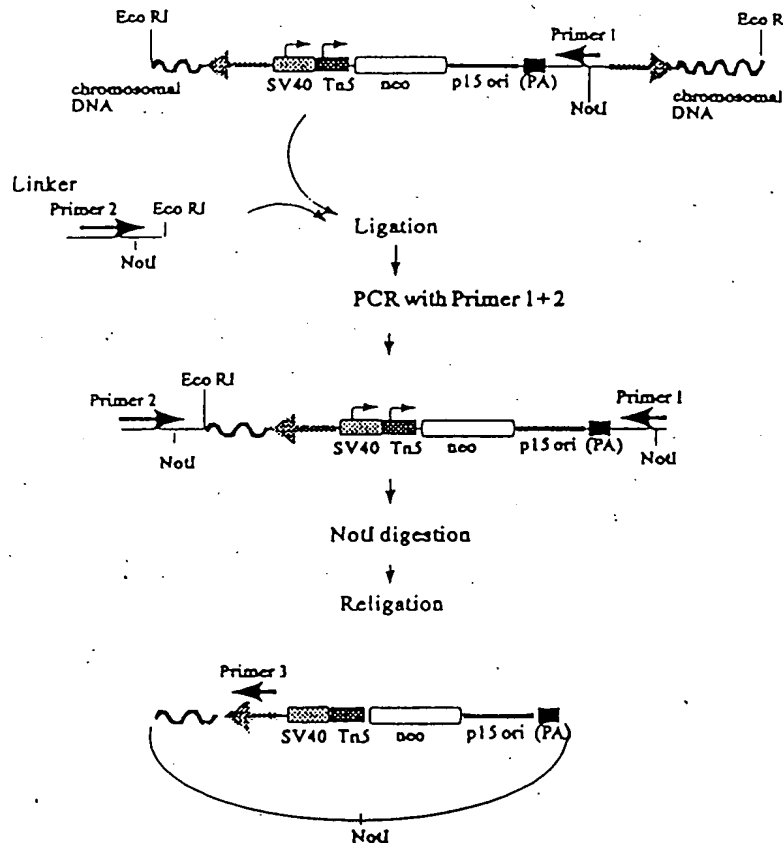


FIG. 8B



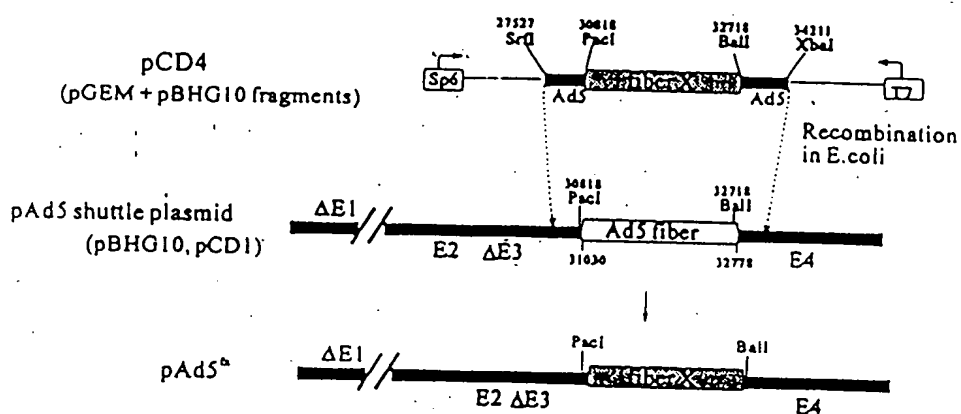


FIG. 9

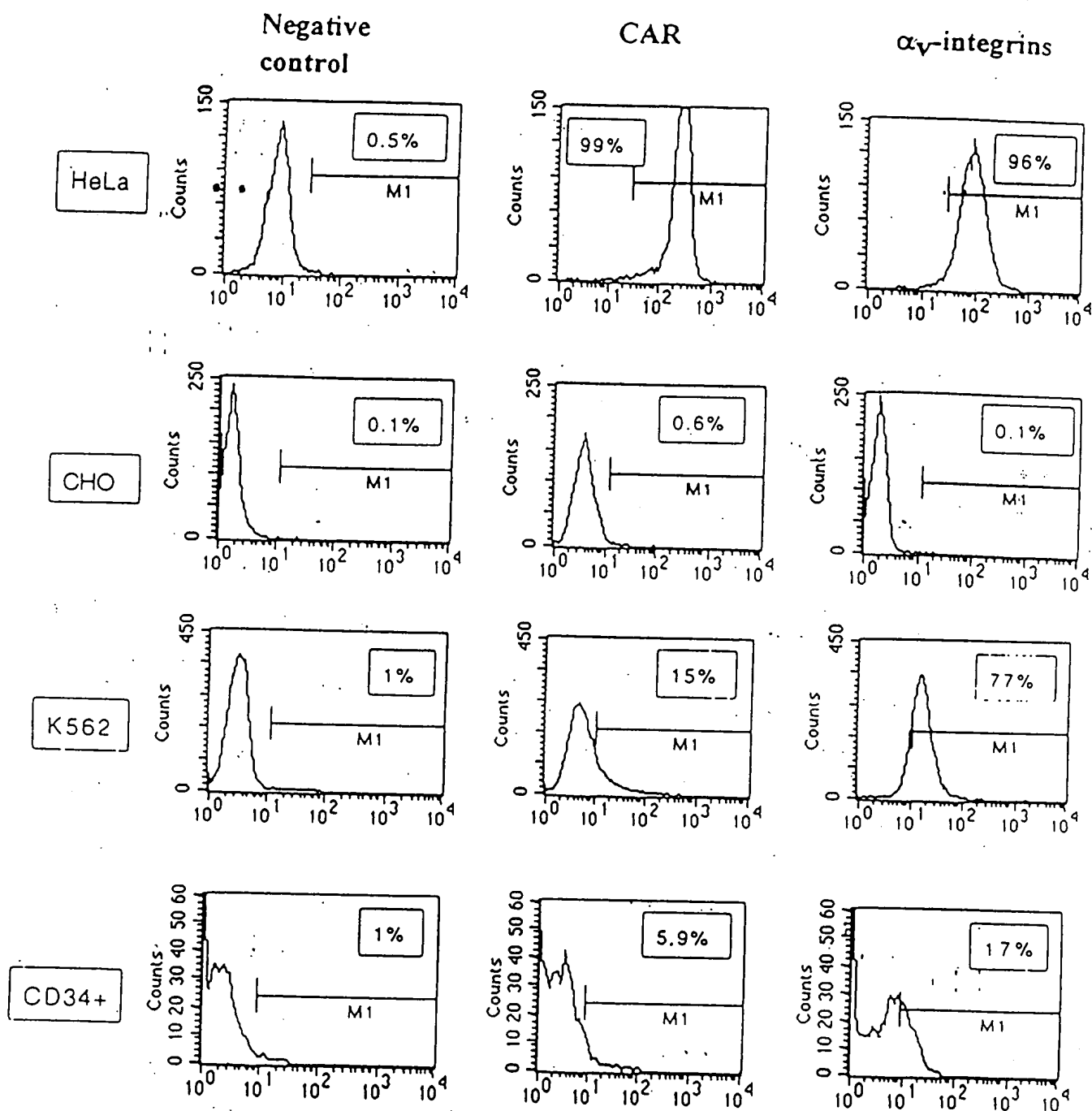


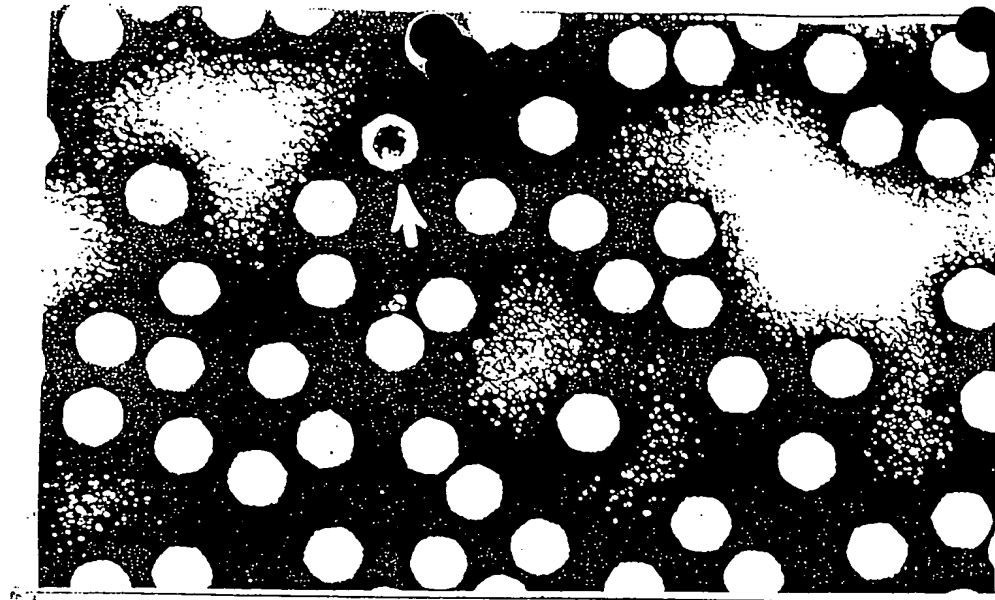
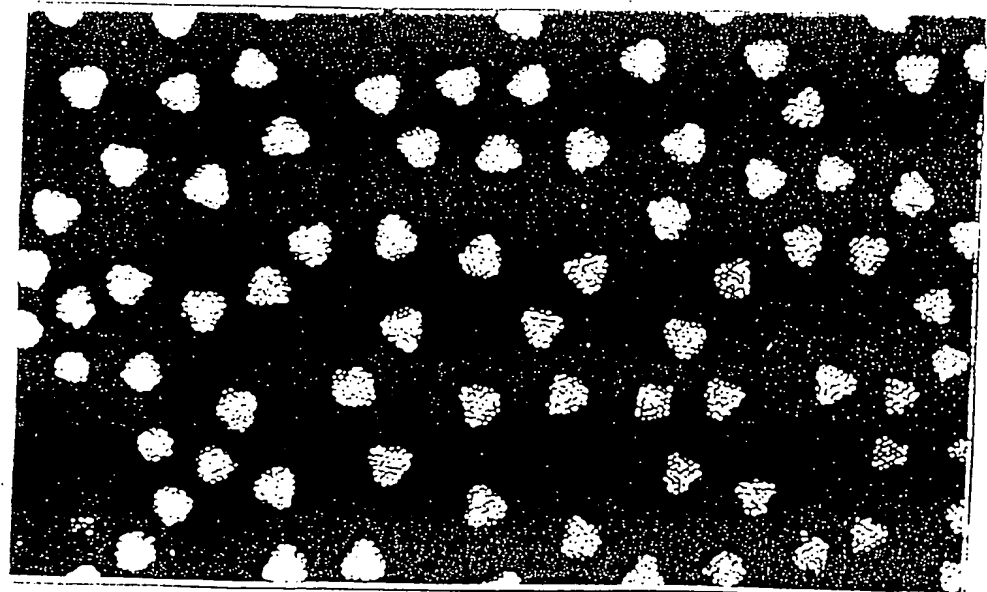
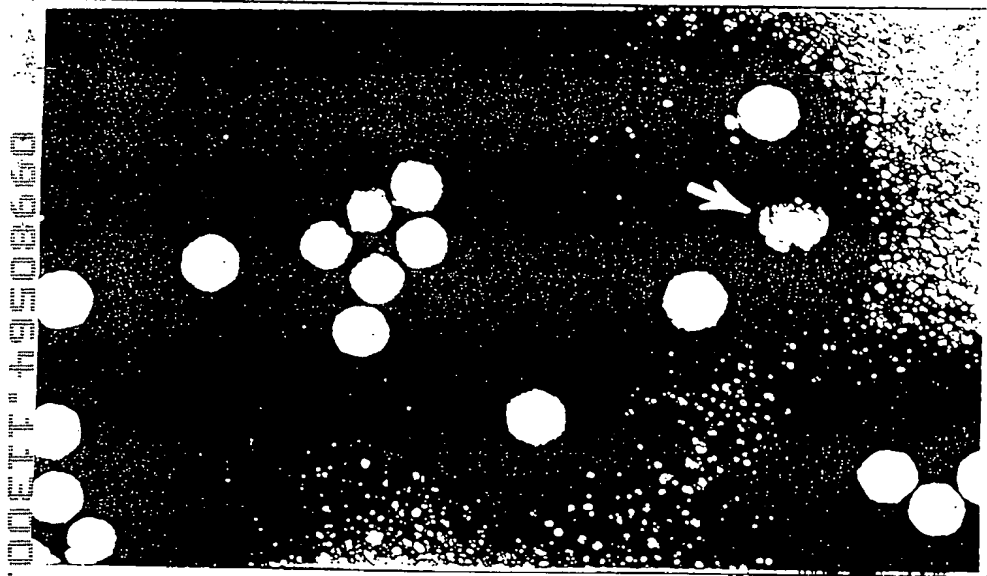
FIG. 10

Ad 35

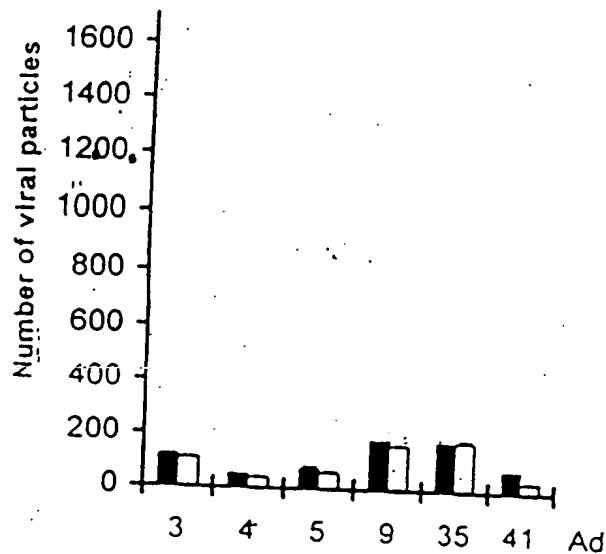
Ad 9

Ad 5

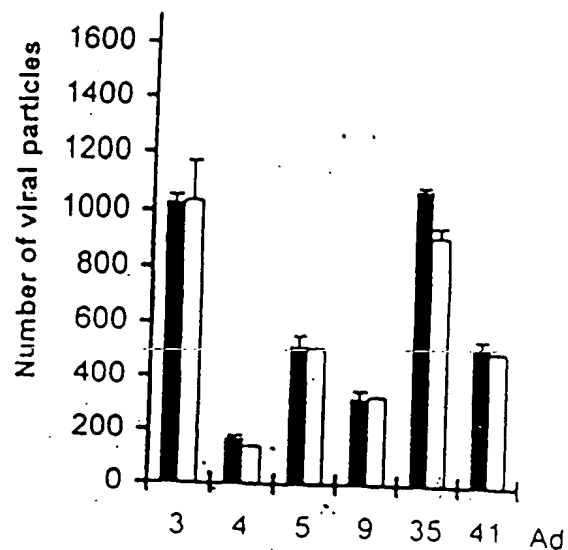
Fig. 11



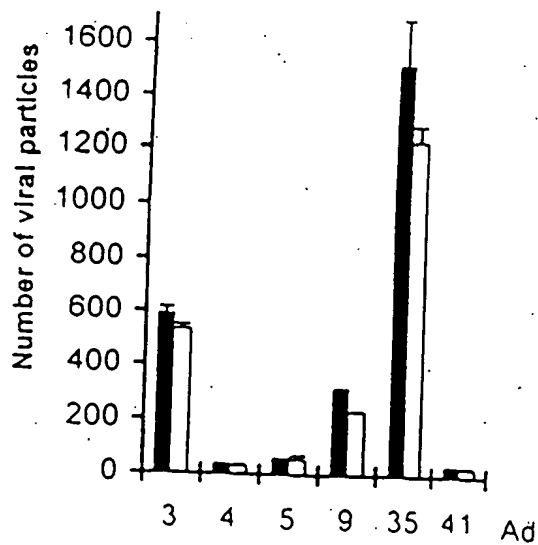
CHO



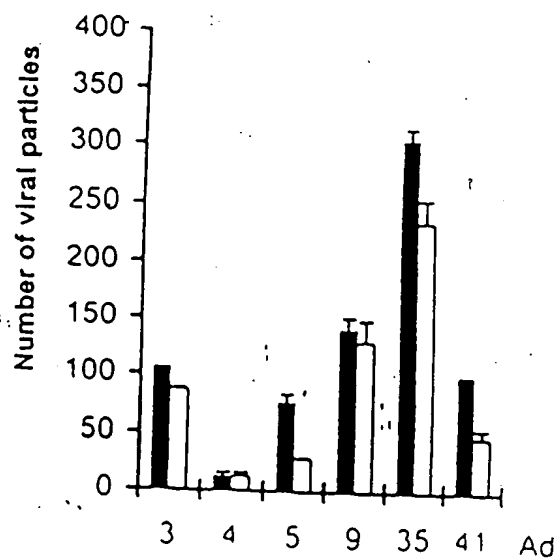
HeLa



K-562



CD34+



■ Attachment

□ Internalization

FIG. 12

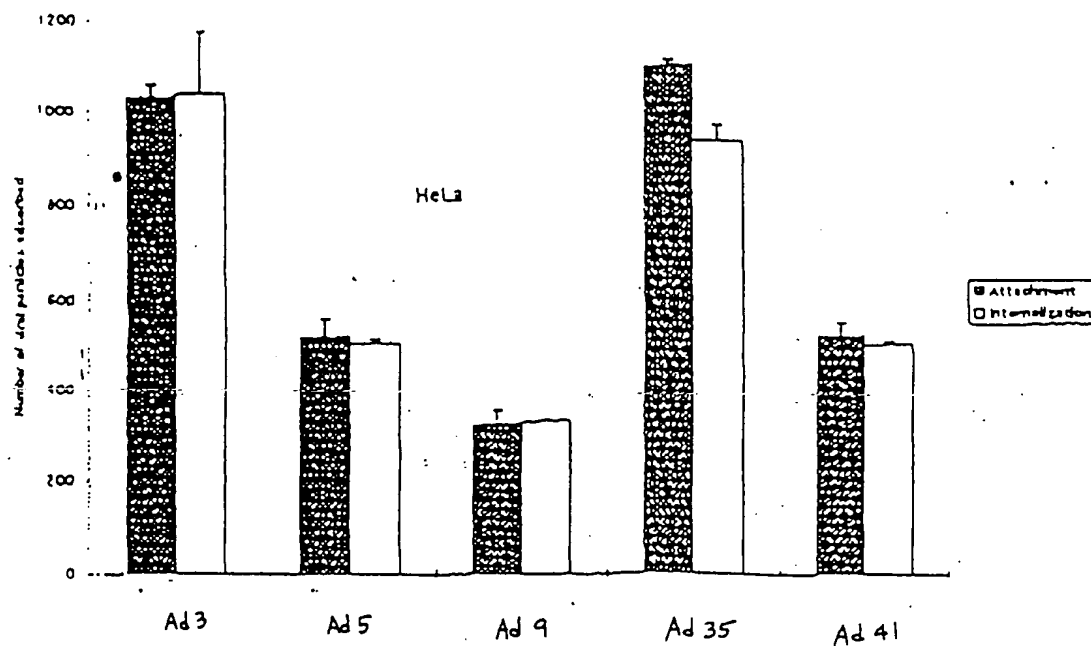
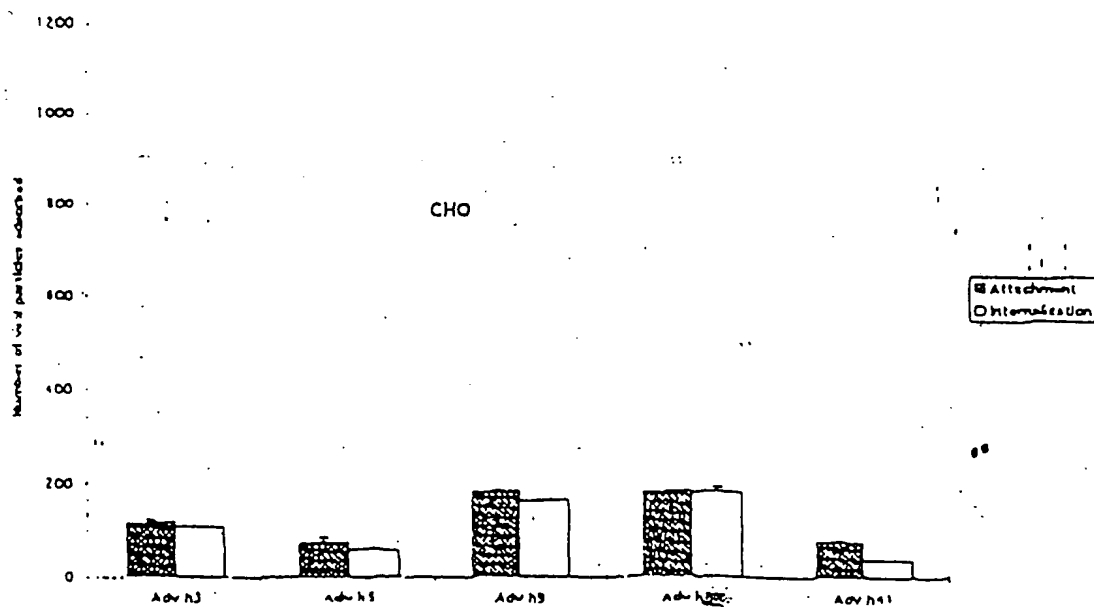
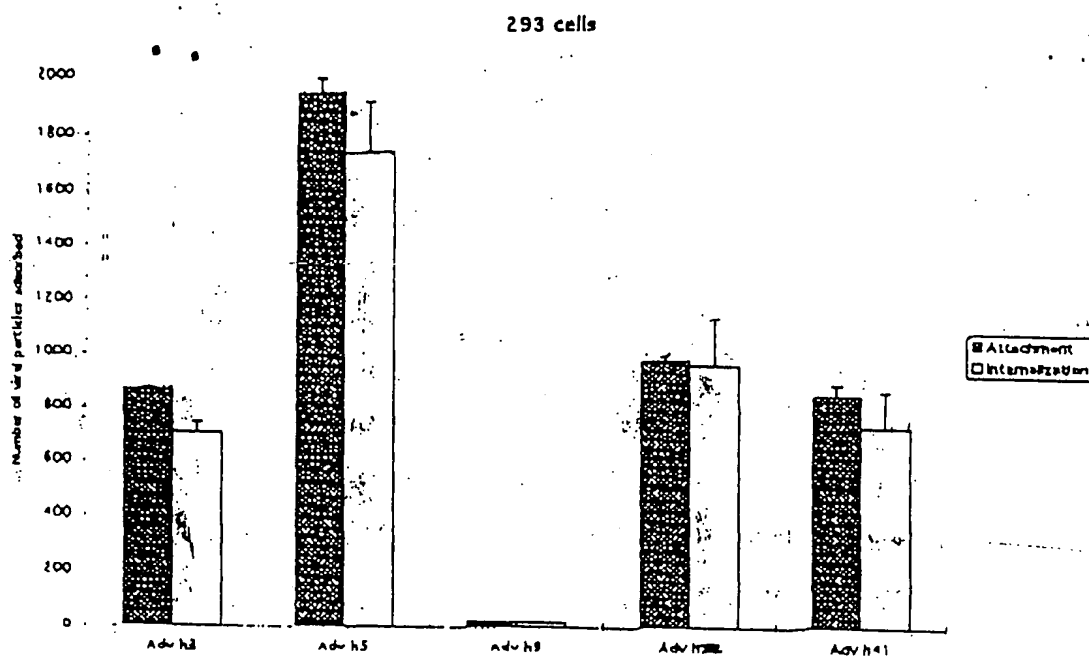


FIG. 13 A



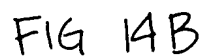
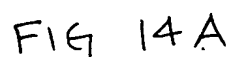
35

FIG. 13 B



35

FIG. 13C



## A. K562 cells

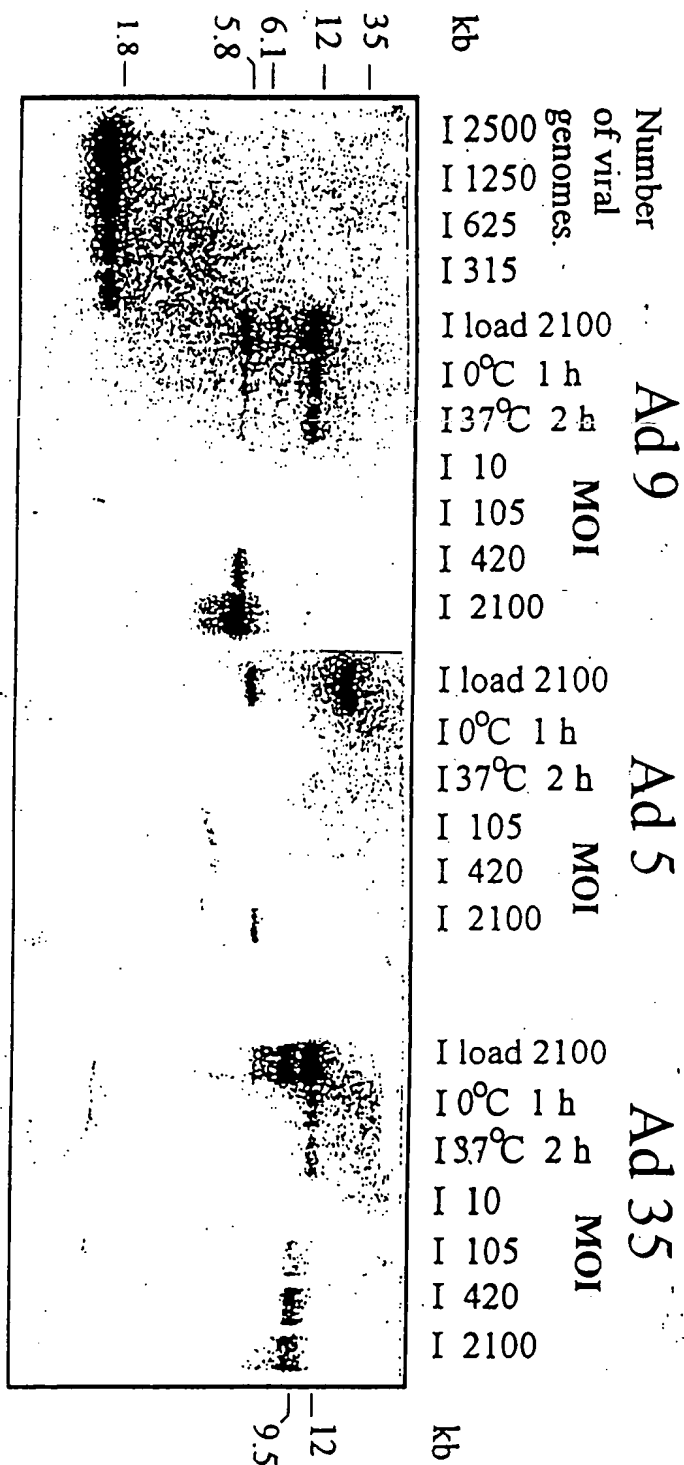
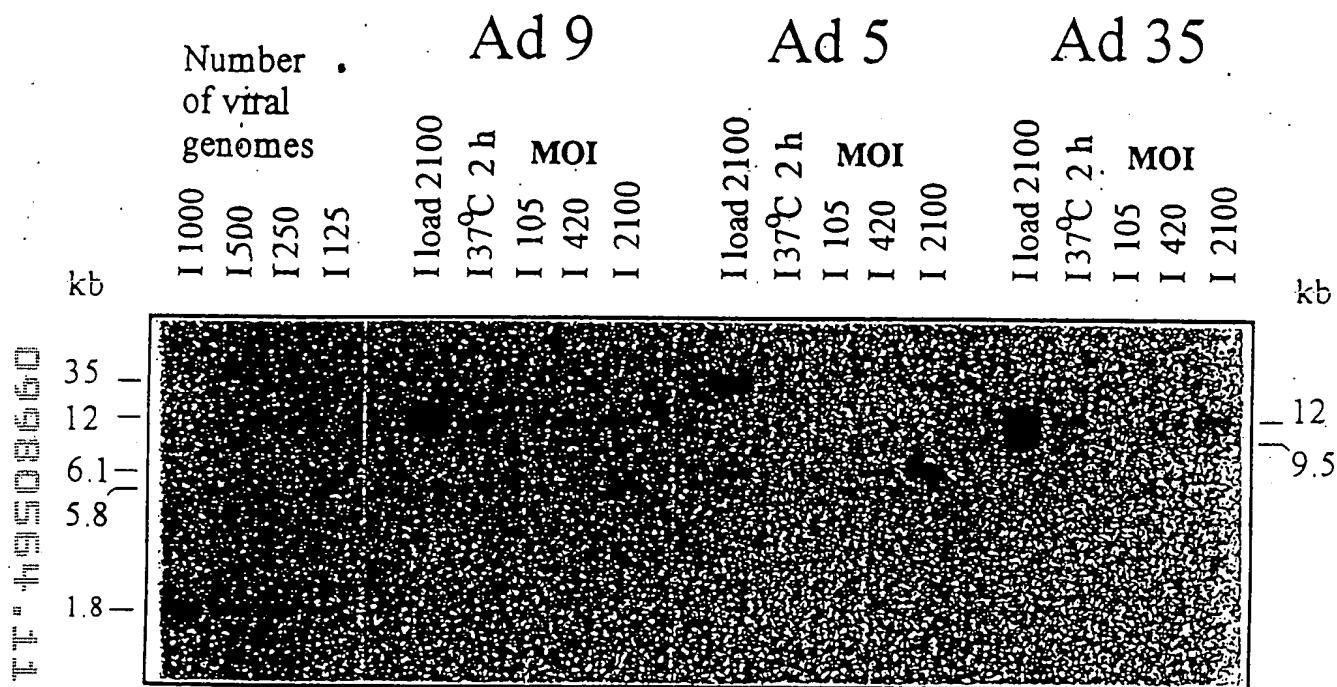


FIG. 15

09980564.113001



## B. CD 34+ cells



FOOTER 19508650

C.

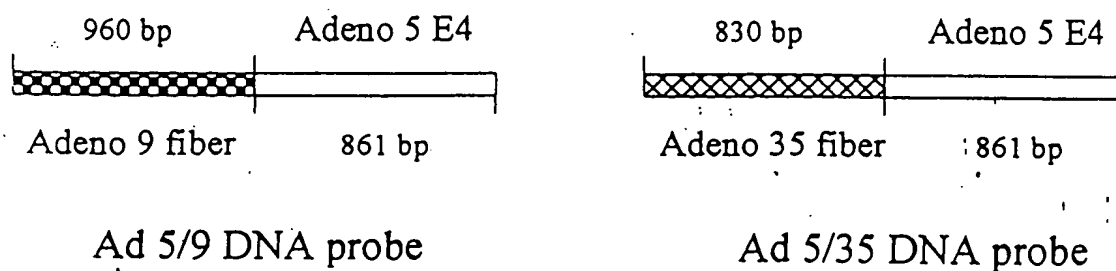
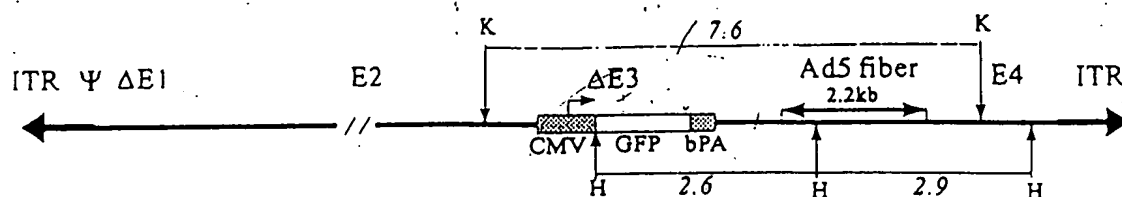


FIG. 15 continued

Ad5GFP



Ad5GFPF35

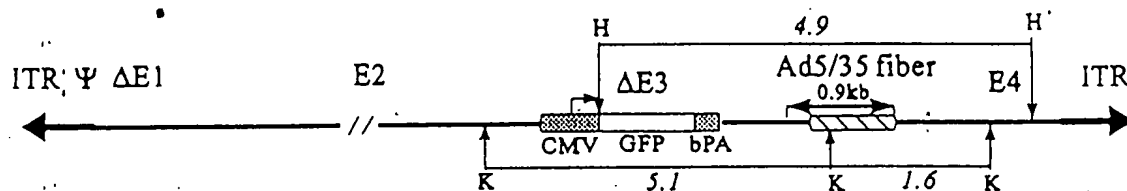


FIG 16A

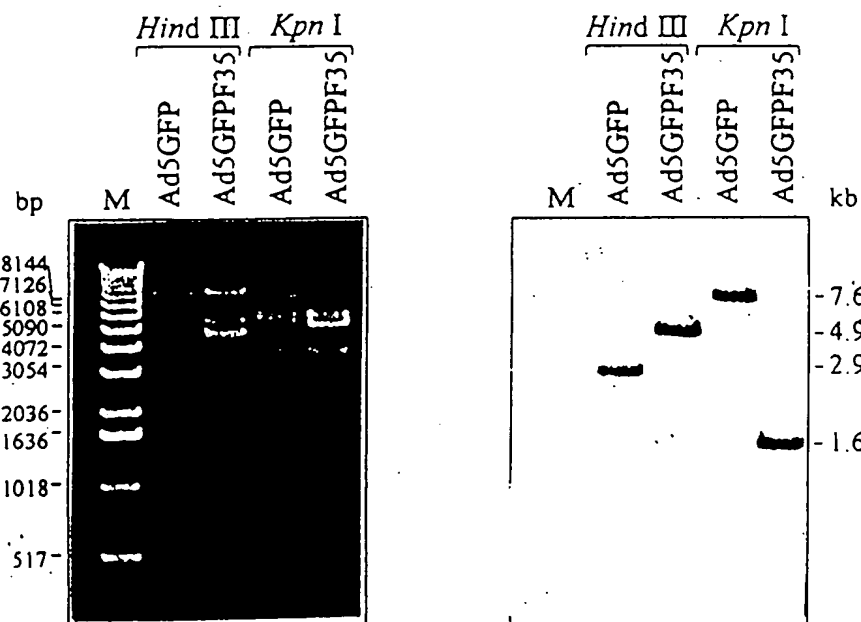
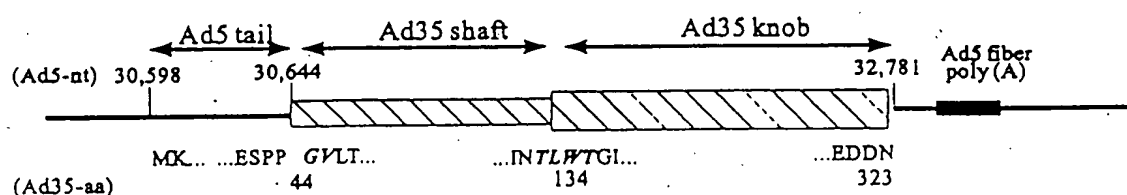
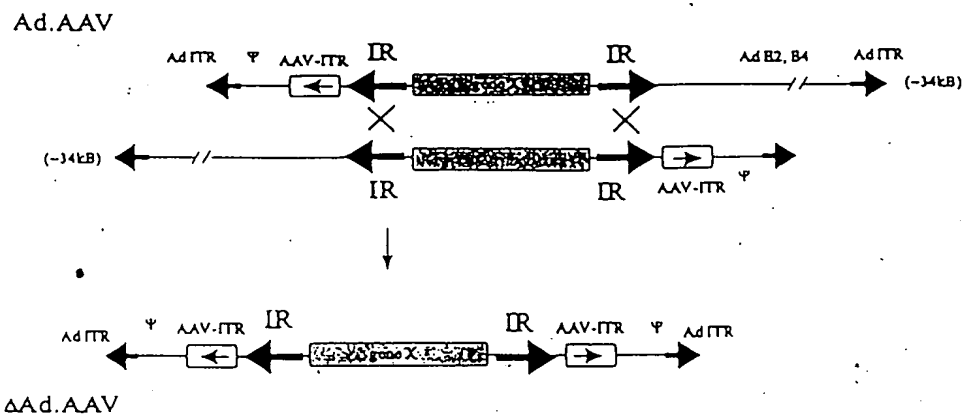


FIG. 16B

FIG. 16

A



B

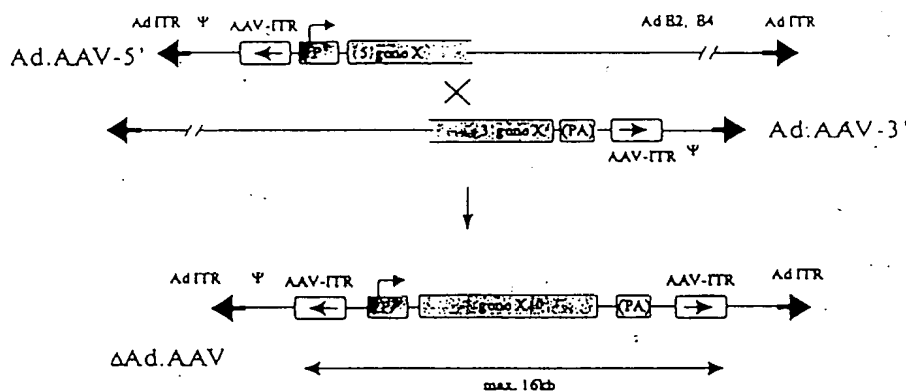


FIG. 17

# Ad5.GFP/E35

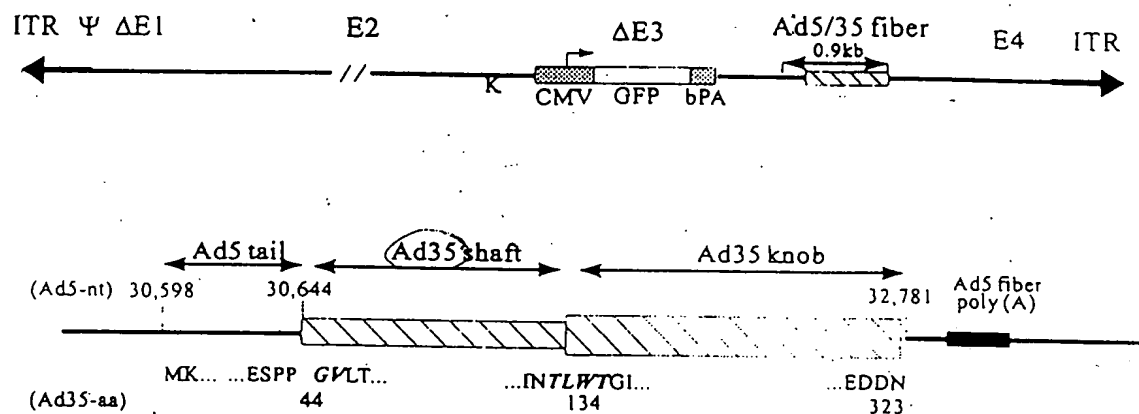
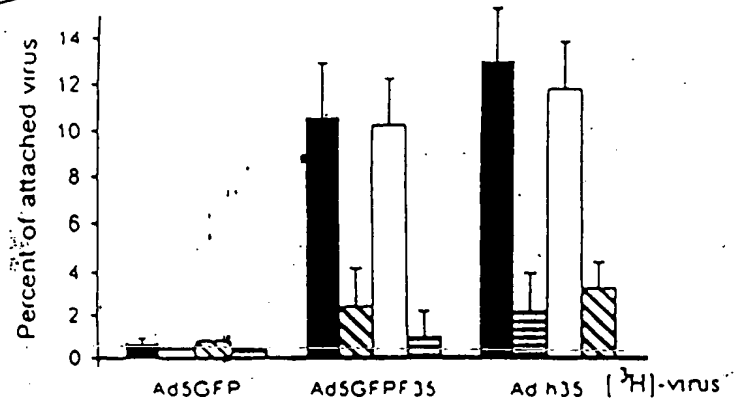


FIG. 18

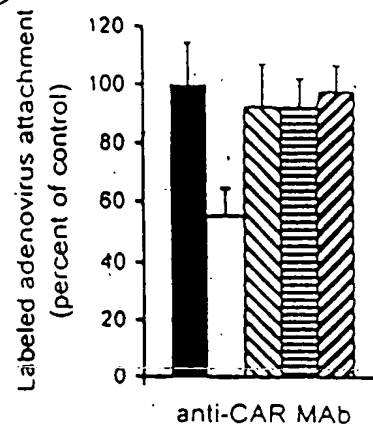
(A)

Attachment.



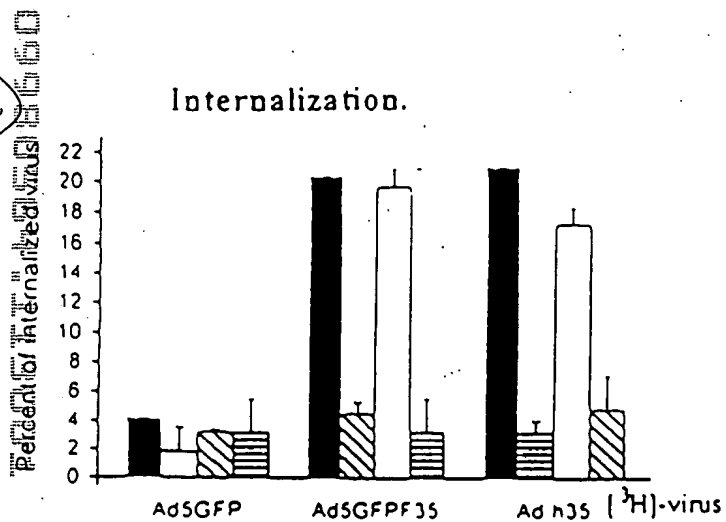
(B)

Attachment.



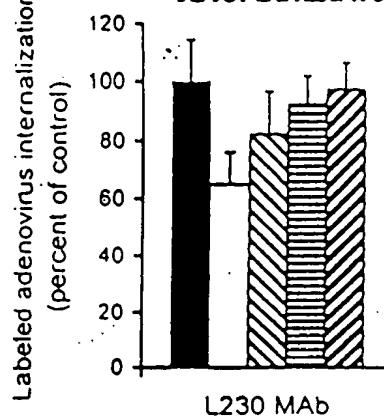
(C)

Internalization.



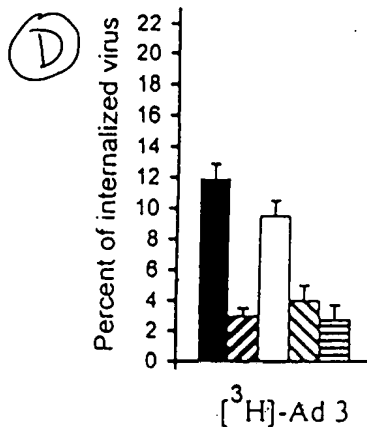
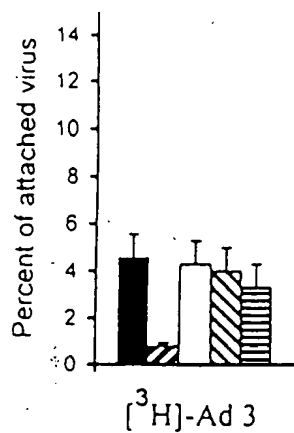
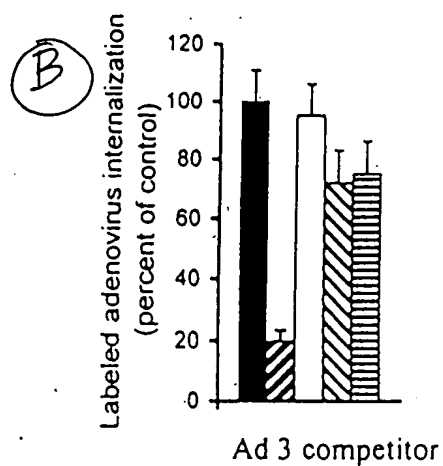
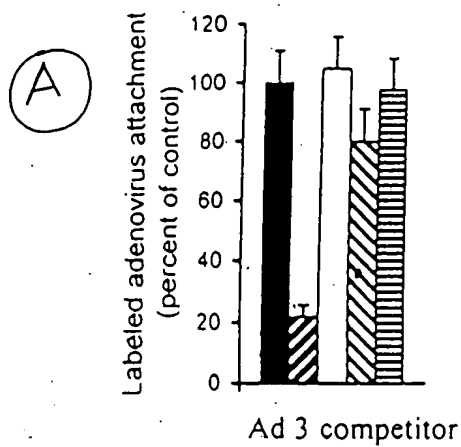
(D)

Internalization.



■ Control □ Ad5GFP ▨ Ad5GFPF35 ▩ Ad 35 ▤ Ad 3

FIG. 19



■ Control    □ Ad5GFP    ▨ Ad5GFPF35    ▤ Ad 35    ▩ Ad 3

FIG. 20

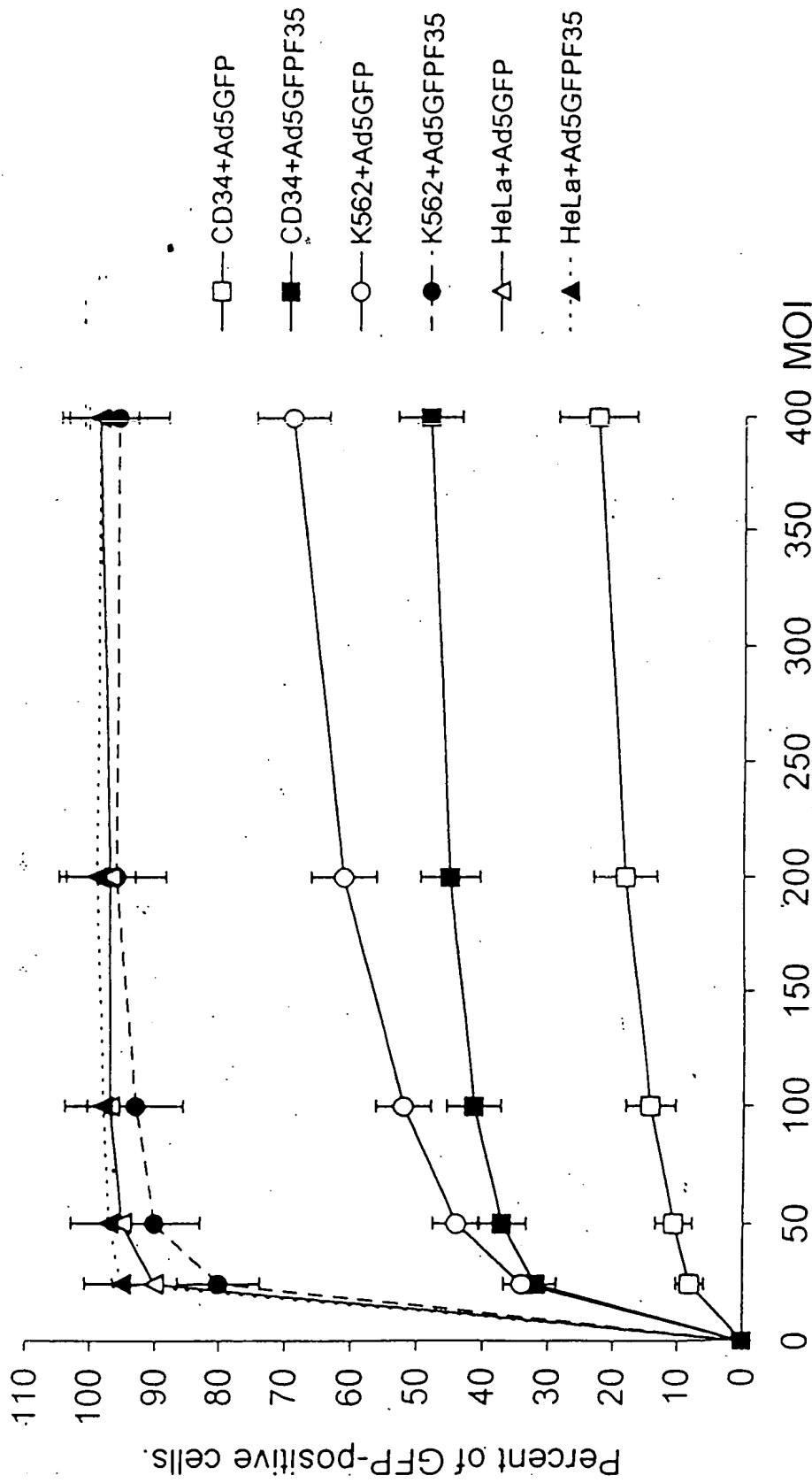


FIG. 21

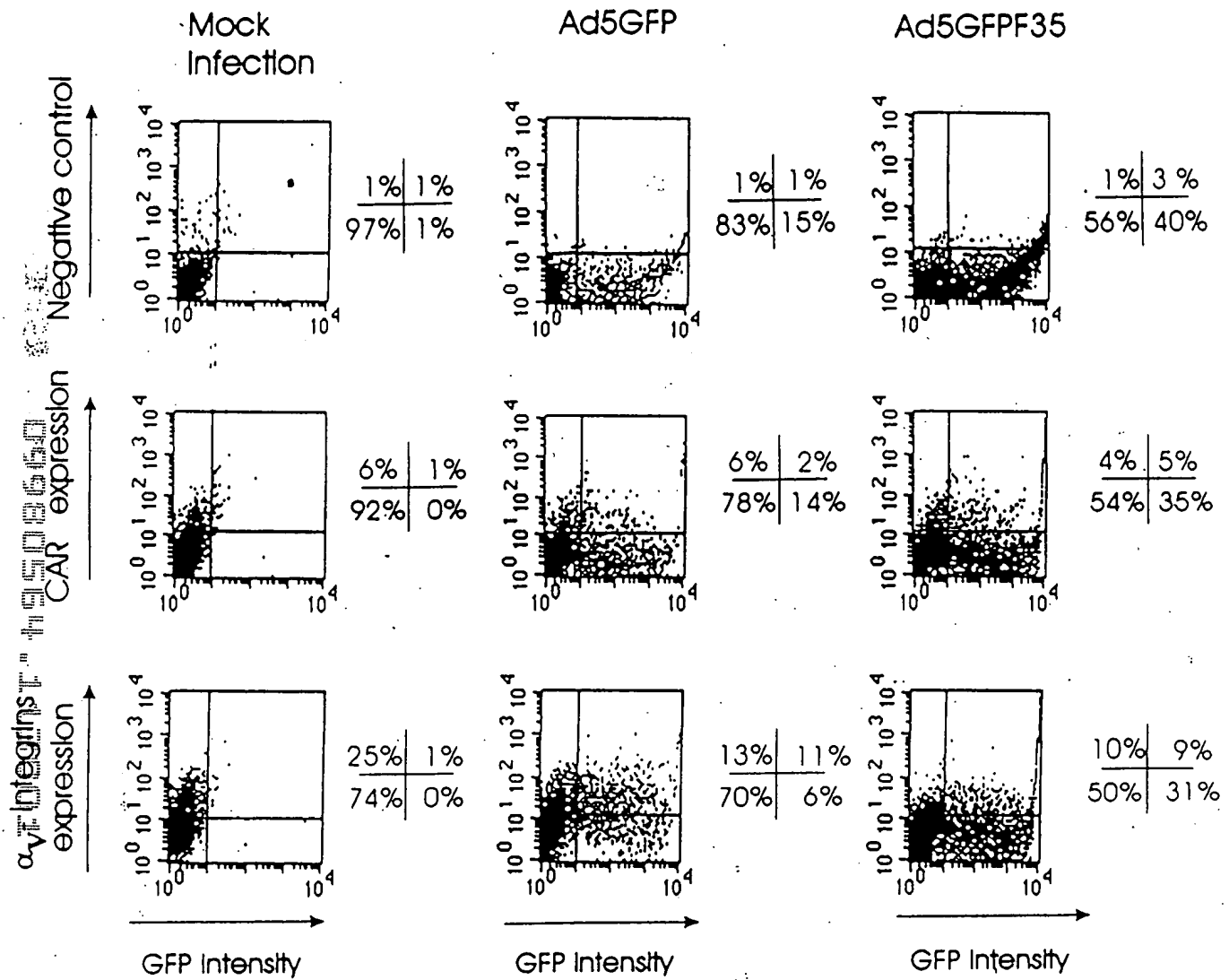


FIG. 22



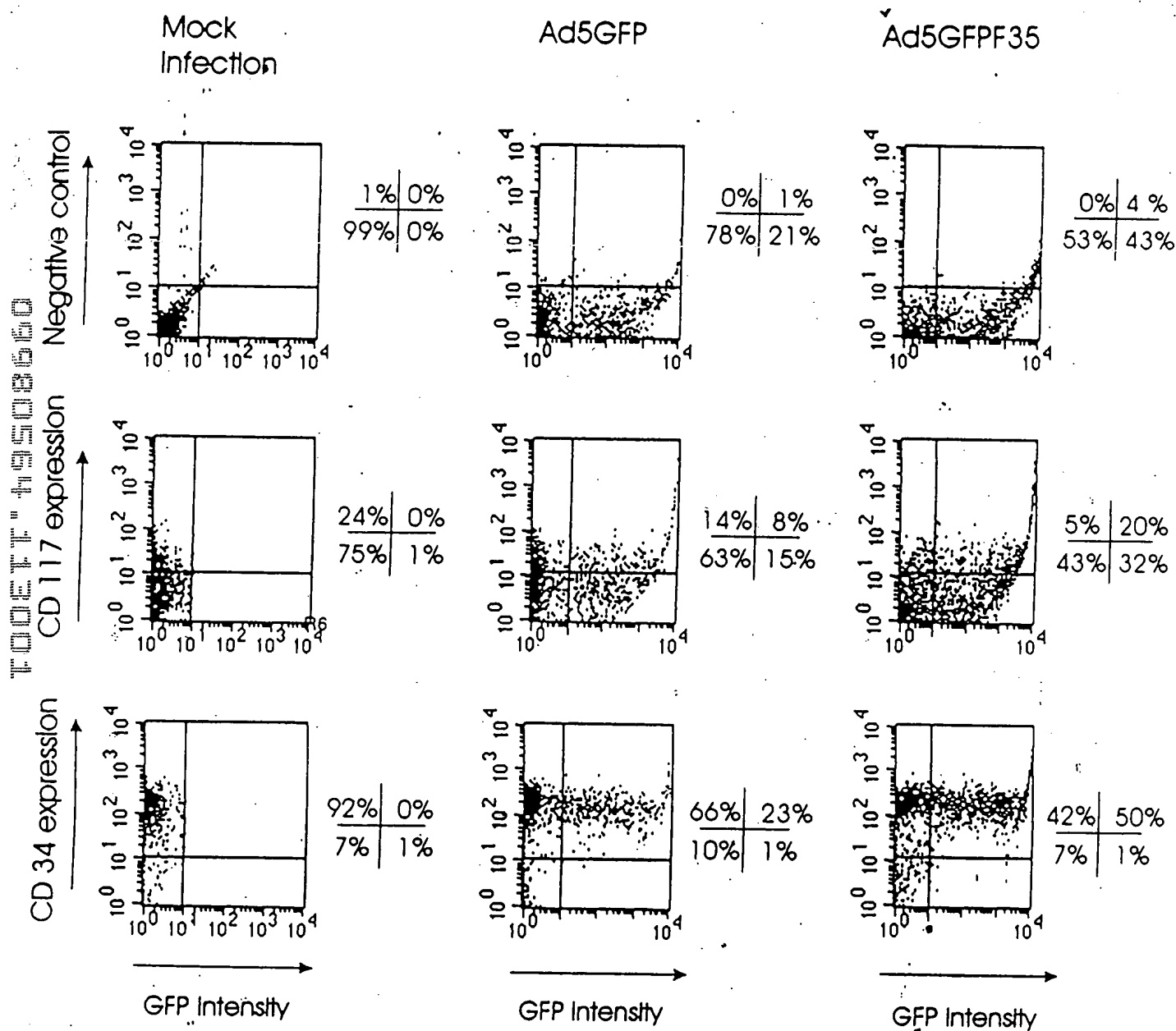


FIG. 23 A

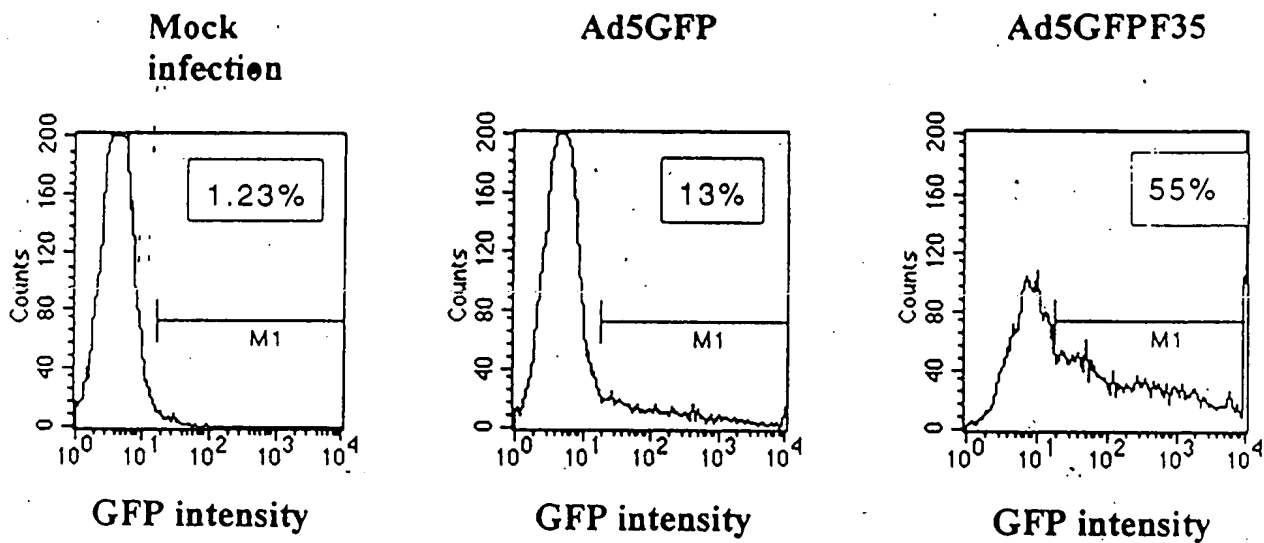


FIG 23 B



FIG. 24

Adeno vector		Ad SL		Ad 5S		Ad 5/9L		Ad 5/9S		Ad 5/35L		Ad 5/35S	
Binding to CAR		Yes		Yes		Yes		Yes		No		No	
Genome/PFU ratio		13		143		29		582		17		14	
Attachment to/ internalization into													
293		+++		++		++		+/-		+++		+++	
K562		-/+		-/+		-/+		-/-		+++		+++	
Y79		++		+		+		+/-		+		+	
Gene transfer efficiency													
293		+++		++		++		+/-		+++		+++	
K562		-/+		-/+		-/+		-/-		+++		+++	
Y79		++		+		+		+/-		+		+	

FIG. 25

## Top view of Adenovirus type 5 fiber knob domain

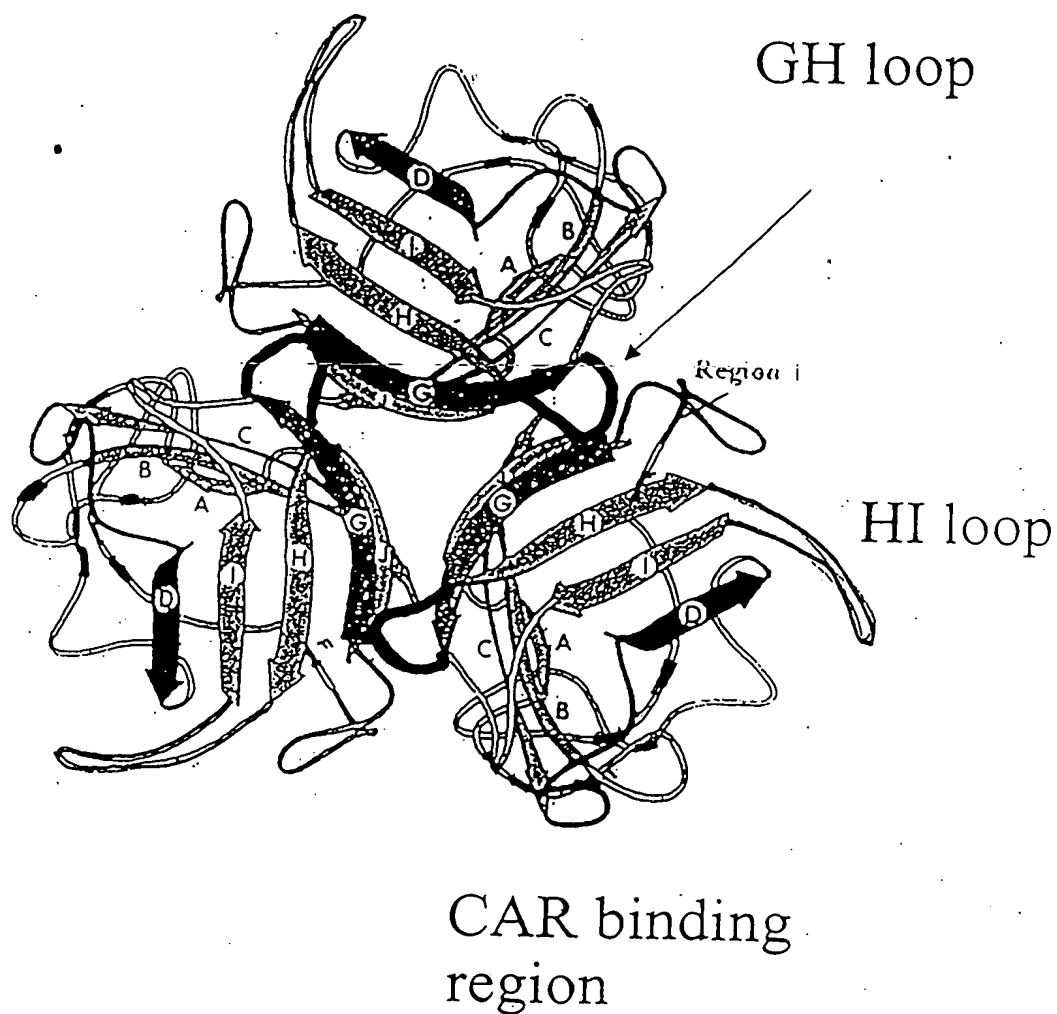
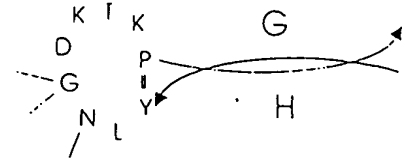
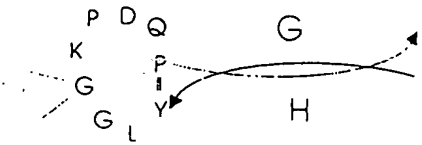


FIG. 26

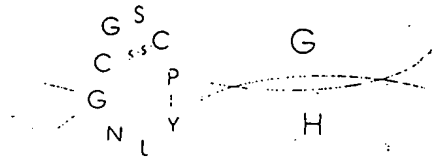
VY) L N G D K T K [P V



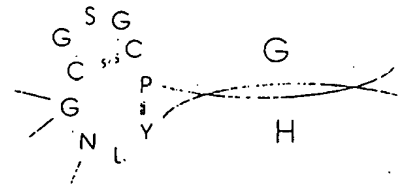
VY] L G G K P D Q [P V



VY) L N G C G S C [P V



VY) L N G C G S G C [P V



VY) L N G C G (X) G C [P V

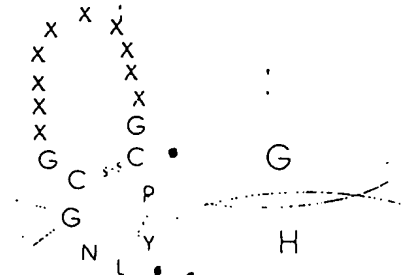


FIG. 27

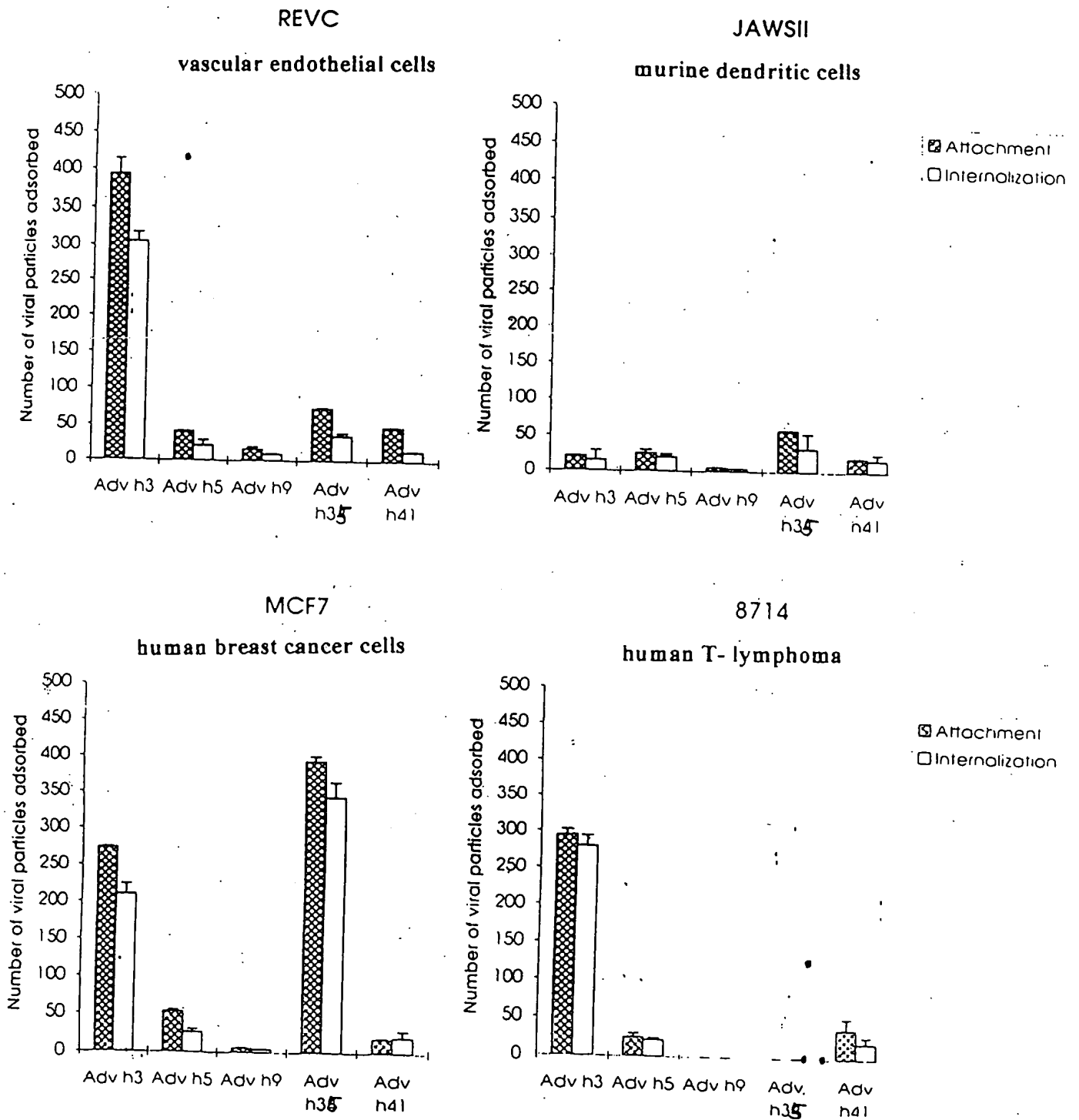


FIG 28

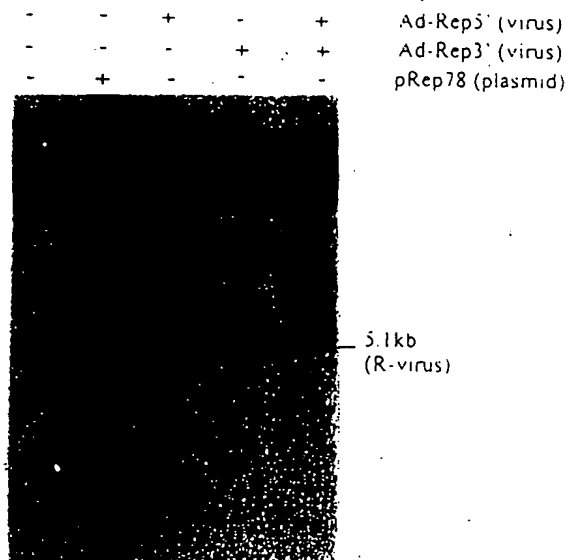
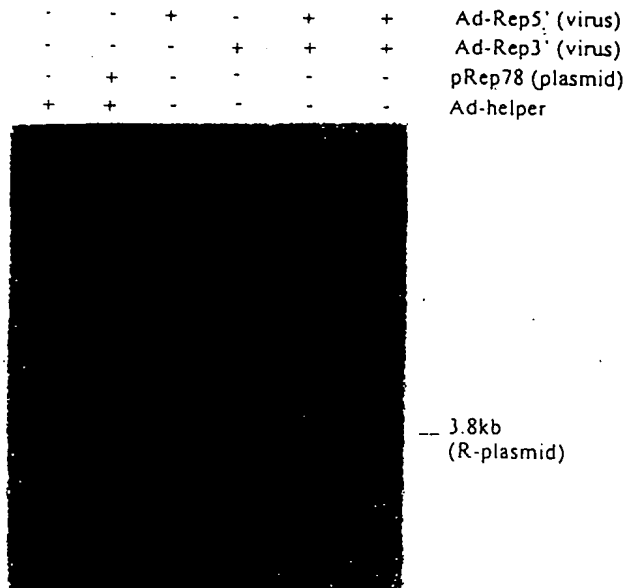
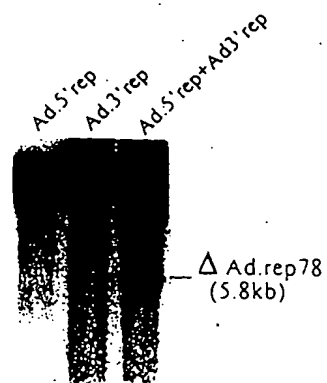
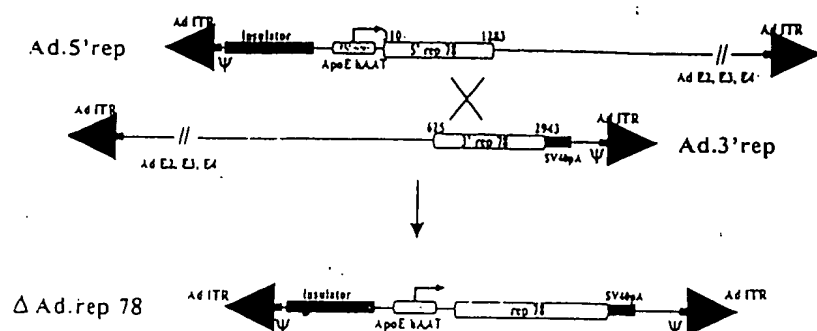


FIG. 29